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Aart J. C. Bik, Peter J. H. Brinkhaus, Peter M. W. Knijnenburg
June 1998 ACM Transactions on Mathematical Software (T

Full text available: pdf(391.88 KB)

Additional Information: full c

Primitives in mathematical software are usually written and
“sparse compiler” that is capable of automati
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particular primitive is supplied to the sparse compiler, after
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Keywords: compilers, data structure transformations, restr

2 Expressional loops

Richard C. Waters

January 1984 Proceedings of the 11th ACM SIGACT-SIGPLAN

Full text available:  pdf(1.03 MB)


Additional Information: full citation

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Tim Leehane

September 1996 Proceedings of the 24th annual ACM SIGUCCS

Full text available:  pdf(5.73 MB)

Additional Information: full citation, references

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Donald Kossmann

December 2000

ACM Computing Surveys (CSUR), Volume 34, Number 4

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5 Composable ad hoc location-based services for hetero

Todd D. Hodes, Randy H. Katz

October 1999

Wireless Networks, Volume 5 Issue 5

Full text available:  pdf(403.18 KB)

Additional Information: full citation, refere

6 ObjectGlobe: Ubiquitous query processing on the Interr

R. Braumandl, M. Keidl, A. Kemper, D. Kossmann, A. Kreutz,

August 2001 The VLDB Journal — The International Jo

Full text available:  pdf(251.44 KB)

Additional Inform

We present the design of ObjectGlobe, a distributed and op
published on the Internet via Web servers which have, if al
the ObjectGlobe project is to establish an open marketplac
distributed and used by any kind of Internet application. Fu
machi ...

Keywords: Cycle-, function- and data provider, Distributed
Query optimization, Security

7 BASIC

Thomas E. Kurtz

January 1978 The first ACM SIGPLAN conference on History of I

Full text available:  pdf(1.61 MB)

Additional Information: full


Dartmouth College is a small university dating from 1769,
Youth of the Indian Tribes in this Land in reading, writing a
others.” (Wheelock 1769.) The undergraduate stud
students by more than 5 to 1, and majors predominantly in
In 1940 a milestone ...

8 I/O reference behavior of production database workload at the logical level

Windsor W. Hsu, Alan Jay Smith, Honesty C. Young

March 2001

ACM Transactions on Database Systems (TOIS)

Full text available:  pdf(5.42 MB)

Additional Information: full

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9 A decade of reconfigurable computing: a visionary retrospective

R. Hartenstein

March 2001 Proceedings of the conference on Design, automation, and test in Europe

Full text available:  pdf(768.00 KB)

Additional Information: full citation, references

10 Modeling of data-processing software for generating architecture

N. Mano

April 1988

Proceedings of the 10th international conference on Very Large Databases

Full text available:  pdf(858.92 KB)

Additional Information: full

We propose a new modeling scheme named S-model (which is based on a uniform object-relationship formalism). S-model defines the syntax and covers wide range of information of file-process algorithms and problem-solving capability of S-model systems.

11 Standardization in IT: Inter-organizational document ex

Luis Martín Díaz, Erik Wüstner, Peter Buxmann

March 2002

Proceedings of the 2002 ACM symposium on

Full text available:  pdf(470.62 KB)

Additional Information: f

Information exchange processes are often characterized by order to achieve compatibility between information system between applications of different software vendors or wher software. In this paper we want to survey the conversion p participants often use different da ...

Keywords: Java, XML, conversion problem, information sys standardization, supply chain management

12 MIL primitives for querying a fragmented world

Peter A. Boncz, Martin L. Kersten

October 1999

The VLDB Journal — The International Jo

Full text available:  pdf(261.36 KB)


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In query-intensive database application areas, like decisior fragmentation have a significant performance advantage. I on top of such a fragmented data model, a flexible yet pow been successfully tackled in Monet, a modern extensible dæ design choices made in the Monet interprete ...

Keywords: Database systems, Main-memory techniques, Q

13 Reverse engineering: a roadmap

Hausi A. Müller, Jens H. Jahnke, Dennis B. Smith, Margaret-,
May 2000 Proceedings of the conference on The future of

Full text available:  pdf(1.53 MB)

Additional Information: full

Keywords: data reverse engineering, program comprehens
analysis, software engineering, software evolution, softwar
software tools, tool adoption, tool evaluation

14 The ILLIAC IV FORTRAN compiler

Robert E. Millstein, Charles A. Muntz

January 1975 ACM SIGPLAN Notices , Proceedings of the confer
and vector machines, Volume 10 Issue 3

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major surprises when he uses ILLIAC FORTRAN. The langu
FORTRAN. The processors are the same — a compil
source text, a link editor which collects and joins separat ..

15 Content integration for e-business

Michael Stonebraker, Joseph M. Hellerstein

May 2001 ACM SIGMOD Record , Proceedings of the 2001 ACM
Volume 30 Issue 2

Full text available:  pdf(75.79 KB)

Additional Information: full cit

We define the problem of content integration for e-business in fundamental ways from traditional issues surrounding data warehousing and OLTP. Content integration is not just about data but encompasses a broader set of applications and services for content integration and required services for architectural alternatives and discuss ...

16 Coarse grain reconfigurable architecture (embedded tu

Reiner Hartenstein

January 2001 Proceedings of the 2001 conference on Asia S

Full text available:  pdf(167.05 KB)

Additional Information: full cit

The paper gives a brief survey over a decade of R&D on co techniques and points out its significance to the emerging

17 Legacy information systems and business process cha

Ashley D. Lloyd, Dick Dewar, Rob Pooley

December 1999 Communications of the AIS

Full text available:  pdf(572.94 KB)

Additional Information: full citatio

18 The impact of object technology on commercial transac

Edward E. Cobb

August 1997 The VLDB Journal — The International Jou

Full text available:  pdf(649.17 KB)

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Businesses today are searching for information solutions th
minimize risk, these solutions must build on existing invest
problem, and be manageable. Object technology, with its p
development, delivers these characteristics but, to date, its
limited. One possible reason is the ...

Keywords: Objects, Workflow, transaction processing

19 Information systems: MinSQL: a simple componentized

Garret Swart

June 2003 Proceedings of the 2nd international conference or

Full text available:  pdf(96.27 KB)

Additional Information: fu

MinSQL is a Java relational database that has been optimis
classroom. It builds on basic Java technology and design p
of Java technology and patterns and also to allow students
MinSQL design is embodied in a set of Java interfaces that
wide variety of implementations. Th ...

Keywords: classroom software, componentized software

20 E-commerce: SweetDeal: representing agent contracts process descriptions

Benjamin N. Grosz, Terrence C. Poon

May 2003

Proceedings of the twelfth international conference

Full text available:  pdf(481.94 KB)

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SweetDeal is a rule-based approach to representation of business process descriptions. It evaluates, negotiates, and executes contracts with substantial knowledge representation in RuleML. Here, we newly extend the SweetDeal approach by also including services that are represented in DAML+OIL (emerging standard ...)

Keywords: DAML+OIL, OWL, RDF, XML, business process descriptions, electronic contracts, intelligent software agents, programs, ontologies, process descriptions, process knowledge, services

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Full text available:  pdf(5.73 MB)

Additional Information: full citation, re

5 Improved subject access, browsing and scanning mechs

Peter Ingwersen, Irene Wormell

September 1986 Proceedings of the 9th annual international AC
information retrieval

Full text available:  pdf(889.05 KB)

Additional Information:

Focusing on communication, the paper analyses and proposes particular concerns with ill defined and "muddled" searching and text representation. The need for development devices, based on existing methods to support searchers is indexing methods fitting the potential ...

6 Composable ad hoc location-based services for heterogeneous

Todd D. Hodes, Randy H. Katz

October 1999

Wireless Networks, Volume 5 Issue 5

Full text available:  pdf(403.18 KB)

Additional Information: full citation, references

7 Inter-active graphic methods for automating mechanical

Jacob M. Miller

June 1980

Proceedings of the seventeenth design automation

Full text available:  pdf(1.09 MB)

Additional Information: full

Automating of mechanical engineering design, drafting, structural analysis, and EOSC with interactive graphic time share terminals. It was tasks and to stay competitive in the industry, these tasks have intensive manual design and drafting methods, and structural and vendor surveys were conducted ...

- 8 Windows NT software design and implementation for a
Marko Hännikäinen, Timo Vanhatupa, Jussi Lemiläinen, Timo
August 1999 Proceedings of the 2nd ACM international workshop

Full text available:  pdf(1.20 MB)

Additional Information: full citation,

Keywords: Windows NT, demonstrator platform, wireless LAN

- 9 The state of the art in distributed query processing

Donald Kossmann

December 2000

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Full text available:  pdf(455.39 KB)

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12 Supervisory and Monitor Systems

Robert F. Rosin

January 1969 ACM Computing Surveys (CSUR), Volume 1 Iss

Full text available:  pdf(1.33 MB) Additional Information: full citation, references, ci

13 Data base processor mage

G. Berger Sabbatel

March 1980 Proceedings of the fifth workshop on Computer

Full text available:  pdf(641.92 KB) Additional Information: fi

In this paper, we present the design of data base process method. It is composed of two microprocessors, a disk pro design decisions, and architecture are discussed. We start method is then summarized. Finally, we present the design on the disk processor.

14 The ILLIAC IV FORTRAN compiler

Robert E. Millstein, Charles A. Muntz

January 1975 ACM SIGPLAN Notices , Proceedings of the confer and vector machines, Volume 10 Issue 3

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17 Risks to the public in computers and related systems

Peter G. Neumann

January 2002

ACM SIGSOFT Software Engineering Notes, Volu

Full text available:  pdf(1.41 MB)

Additional Information: full citat

18 On the measured behaviour of a X.25 packet switching

Alberto Faro, Gaetano Messina, Franco Martinucci

August 1983

Proceedings of the 1983 ACM SIGMETRICS confer

Full text available:  pdf(566.95 KB)

Additional Information: f


The aim of this paper is to present some measurements on of a typical X.25 DTE-DCE interface. The communication p flow control, the length and contents of the packets and th X.25 subnetwork are compared with others obtained throu subnetwork. Some considerations are presente ...

19 Invited papers—3: Observations on time-shared

L. R. Lavine, J. I. Schwartz

August 1965

Proceedings of the 1965 20th national (

Full text available:  pdf(1.51 MB)

Additional Information: full

The purposes and achievements of the early time-sharing s potentials of these kinds of systems in the future. However associated merits and problems are worth describing. The phenomena observed after several years interest in the field interested in the concept, understand ...

20 Middleware for software leasing over the Internet

H.-A. Jacobsen, O. Günther

November 1999 Proceedings of the 1st ACM conference on Elect

Full text available:  pdf(270.10 KB) Additional Information: full citation, referen

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Maya Daneva

May 1999

Proceedings of the 1999 symposium on Software Engineering

Full text available: pdf(1.14 MB)

Additional Information: full citation

Keywords: component-based engineering, quantification and reuse of software products

2 The state of the art in distributed query processing

Donald Kossmann

December 2000

ACM Computing Surveys (CSUR), V

Full text available:  pdf(455.39 KB)

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Keywords: caching, client-server databases, database applications, economic models for query processing, middleware, multi-tier replication, wrappers

3 The IBM token-ring—a functional perspective

Michael Willett

November 1999 Proceedings of 1986 fall joint computer conference


Full text available:  pdf(812.09 KB)

Additional Information: full citation

4 Contents of the Computer Communication Review 1970

David Oran

January 1995 ACM SIGCOMM Computer Communication Review

Full text available:  pdf(1.75 MB)

Additional Information: full citation,

5 Risks to the public in computers and related systems

Peter G. Neumann

January 2002 ACM SIGSOFT Software Engineering Notes, Volume

Full text available:  pdf(1.41 MB)

Additional Information: full citation

6 Design rule checking and analysis of IC mask designs

B. W. Lindsay, B. T. Preas

June 1976 The proceedings of the thirteenth design automat

Full text available:  pdf(619.91 KB)


Additional Information: full cite

An efficient method of producing logical combinations of in
generalized design rule checking program. The union (OR),
topological classification and simple geometric operations,
(LOGMASC) commands, allowing the designer to construct
checks. These range from simple tolerance c ...

7 Software engineering-as it is

Barry W. Boehm

September 1979 Proceedings of the 4th international confe

Full text available:  pdf(1.01 MB)


Additional Information: full citat

This paper presents a view of software engineering as it is
with respect to lessons learned in the past few years, and c
half of the time. The paper discusses some of the factors w
change, education shortfalls, technology transfer inhibition
models, and a restr ...

8 NSF workshop on industrial/academic cooperation in d

Mike Carey, Len Seligman

March 1999 ACM SIGMOD Record, Volume 28 Issue 1

Full text available:  pdf(1.96 MB)

Additional Information: full citation, ir

9 The automatic generation of sparse primitives

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10 Design and management of data warehouses report or

Stella Gatziau, Manfred Jeusfeld, Martin Staudt, Yannis Vassili
December 1999 ACM SIGMOD Record, Volume 28 Issu

Full text available:  pdf(37.25 KB)

Additional Information: full citz

11 An architecture for secure wide-area service discovery

Todd D. Hodes, Steven E. Czerwinski, Ben Y. Zhao, Anthony
March 2002 Wireless Networks, Volume 8 Issue

Full text available:  pdf(365.68 KB)


Additional Information: fi

The widespread deployment of inexpensive communication
infrastructure, and network-enabled end devices poses an
network service or device out of hundreds of thousands of
architecture and implementation of a secure wide-area Ser
to advertise descriptions of available ...

Keywords: location services, name lookup, network protoco

12 Section 04: reflecting on practice: Innovation in extreme programming and information management

Victoria Bellotti, Nicolas Ducheneaut, Mark Howard, Ian Smit
June 2002 Proceedings of the conference on Designing interactive systems

Full text available:  pdf(1.44 MB)

Additional Information: full citation

We describe our experience of trying to develop a novel approach to (distributed and personal) coordination-based and personal) from stand-alone resources. We describe two models for accomplishing this goal; these were to embed the models in the client. Our exploration of the first model was intensive and influenced our design process. We adopted Extreme Programming ...

Keywords: Extreme Programming, Personal Information Management

13 A model, analysis, and protocol framework for soft state

Suchitra Raman, Steven McCanne

August 1999 ACM SIGCOMM Computer Communication Review
technologies, architectures, and protocols for communication

Full text available:  pdf(1.37 MB)

Additional Information: full citation

"Soft state" is an often cited yet vague concept in network communication. It is often used to describe a loosely coupled, often anonymous form of communication (at all) rather than analytically: a source of *soft state* transmission to one or more receivers that maintain periodic updates cease. Though a number of ...

14 A decade of reconfigurable computing: a visionary retrospective

R. Hartenstein

March 2001 Proceedings of the conference on Design, automation, and test in Europe

Full text available:  pdf(768.00 KB)

Additional Information: full citation, references

15 Computer-Aided Design, Manufacturing, Assembly and

F. C. Bergsten

June 1981 Proceedings of the eighteenth design automation

Full text available:  pdf(763.25 KB)

Additional Inform

This paper describes an integrated Computer-Aided Design increased productivity and quality. The term CADMAT which of all design automated and computer augmented processes design and test phase of electronics, Interactive Graphical (test vector generation are discussed. I ...

16 Poster papers: Discovery net: towards a grid of knowledge

V. ?ur?in, M. Ghanem, Y. Guo, M. Köhler, A. Rowe, J. Syed, I

July 2002 Proceedings of the eighth ACM SIGKDD international

Full text available:  pdf(656.11 KB)

Additional Information: fu

This paper provides a blueprint for constructing collaborative Grid-based computing environments. The need for such systems information and computing resources within the boundaries Virtual Organisations (VO) created to tackle specific project federation management layer and is composed ...

17 Content integration for e-business

Michael Stonebraker, Joseph M. Hellerstein

May 2001 ACM SIGMOD Record , Proceedings of the 2001 ACM Volume 30 Issue 2

Full text available:  pdf(75.79 KB)

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Edward E. Cobb

August 1997 The VLDB Journal &mdash; The International Jou

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Businesses today are searching for information solutions th
minimize risk, these solutions must build on existing invest
problem, and be manageable. Object technology, with its p
development, delivers these characteristics but, to date, its
limited. One possible reason is the ...

Keywords: Objects, Workflow, transaction processing

19 The design of an inexpensive undergraduate data comi

Wayne D. Smith

March 1991 ACM SIGCSE Bulletin , Proceedings of the twenty-:
education, Volume 23 Issue 1Full text available:  pdf(374.47 KB)

Additional Information:

20 A RTP to HTTP video gateway

Mathias Johanson

April 2001 Proceedings of the tenth international conference or

Full text available:  pdf(190.36 KB)

Additional Information: full citation, refere

Keywords: HTTP, RTP, multicast, multimedia gateways, vic

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¹ Inter-active graphic methods for automating mechanical

Jacob M. Miller

June 1980


Proceedings of the seventeenth design automatic

Full text available: pdf(1.09 MB)

Additional Information: full

Automating of mechanical engineering design, drafting, str
EOSC with interactive graphic time share terminals. It was
tasks and to stay competitive in the industry, these tasks h
intensive manual design and drafting methods, and structu
and vendor surveys were conducte ...

- 2 Database performance in the real world: TPC-D and S/Joachen Doppelhammer, Thomas Höppler, Alfons Kemper, D
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January 1969

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Full text available:  pdf(1.33 MB) Additional Information: full citation, references, ci

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Thomas E. Kurtz

January 1978

The first ACM SIGPLAN conference on History of

Full text available:  pdf(1.61 MB)


Additional Information: full

Dartmouth College is a small university dating from 1769, Youth of the Indian Tribes in this Land in reading, writing and others." (Wheelock 1769.) The undergraduate student body is made up of more than 5 to 1, and majors predominantly in In 1940 a milestone ...

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September 1996 Proceedings of the 24th annual ACM SIGUCCS

Full text available:  pdf(5.73 MB)

Additional Information: full citation, references

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Todd D. Hodes, Randy H. Katz

October 1999

Wireless Networks, Volume 5 Issue 5

Full text available:  pdf(403.18 KB)

Additional Information: full citation, references

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October 1999 The VLDB Journal — The International Journal on Very Large Data Bases

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In query-intensive database application areas, like decision support systems, data warehousing and data mining, fragmentation have a significant performance advantage. In addition to such a fragmented data model, a flexible yet powerful query language has been successfully tackled in Monet, a modern extensible database system. The design choices made in the Monet interpreter ...

Keywords: Database systems, Main-memory techniques, Query processing

- 10 ObjectGlobe: Ubiquitous query processing on the Internet**
R. Braumandl, M. Keidl, A. Kemper, D. Kossmann, A. Kreutz,
August 2001 The VLDB Journal — The International Journal of Very Large Databases

Full text available:  pdf(251.44 KB)

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We present the design of ObjectGlobe, a distributed and open query engine published on the Internet via Web servers which have, if available, the ObjectGlobe project is to establish an open marketplace for a distributed and used by any kind of Internet application. Finally, we discuss the machine ...

Keywords: Cycle-, function- and data provider, Distributed Query optimization, Security

- 11 RUNCIBLE—algebraic translation on a limited class of expressions**
Donald E. Knuth

November 1959 Communications of the ACM, Volume 2 Issue 11

Full text available:  pdf(430.08 KB) [Additional Information: full citation, reference](#)

- 12 The automatic generation of sparse primitives**

Aart J. C. Bik, Peter J. H. Brinkhaus, Peter M. W. Knijnenburg
June 1998 ACM Transactions on Mathematical Software (TOMS)

Full text available:  pdf(391.88 KB)

[Additional Information: full citation, reference](#)

Primitives in mathematical software are usually written and compiled by hand. "sparse compiler" that is capable of automating the generation of sparse code. A completely different approach to the generation of sparse code is presented. A particular primitive is supplied to the sparse compiler, after which the compiler generates the code for the primitive. ...

Keywords: compilers, data structure transformations, restructuring

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Luis Martín Díaz, Erik Wüstner, Peter Buxmann

March 2002

Proceedings of the 2002 ACM symposium on

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Information exchange processes are often characterized by order to achieve compatibility between information system between applications of different software vendors or wher software. In this paper we want to survey the conversion p participants often use different da ...

Keywords: Java, XML, conversion problem, information sys standardization, supply chain management

14 Legacy information systems and business process cha

Ashley D. Lloyd, Dick Dewar, Rob Pooley

December 1999

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15 A preprocessor for structural analysis programs

Peter K. Ho

June 1976

The proceedings of the thirteenth design automa

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This preprocessor generates and updates input data on the and on gravity, seismic and other loadings.

16 A decade of reconfigurable computing: a visionary retrc

R. Hartenstein

March 2001

Proceedings of the conference on Design, automa

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17 Coarse grain reconfigurable architecture (embedded tu Reiner Hartenstein

January 2001 Proceedings of the 2001 conference on Asia

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techniques and points out its significance to the emerging

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Benjamin N. Grosz, Terrence C. Poon

May 2003 Proceedings of the twelfth international confere

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Here, we newly extend the SweetDeal approach by also inc
are represented in DAML+OIL (emerging standa ...

Keywords: DAML+OIL, OWL, RDF, XML, business process a
commerce, electronic contracts, intelligent software agents
programs, ontologies, process descriptions, process knowle
services

19 What next?: A dozen information-technology research Jim Gray

January 2003 Journal of the ACM (JACM), Volume 50 Issue

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20 The impact of object technology on commercial transac

Edward E. Cobb

August 1997 The VLDB Journal — The International Jou

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minimize risk, these solutions must build on existing invest
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